

REMARKS

In the patent application, claims 2-19, 21-23, 25, 27-29, 31 and 32 are pending. In the office action, all pending claims are rejected.

Applicant has canceled claims 3-7, 14-17 and 19, amended claims 2, 13, 18, 21 and 27-29, and added new claims 33-41.

Independent claims 2, 13, 18 and 27 have been amended to include the features in the apparatus as shown in Figure 6 and associated processes as described in page 12, lines 9-25.

Claim 21 has been amended to include the limitation of combining a time domain to the summed transform coefficients.

The support can be found in Figure 6.

Claims 28 and 29 have been amended such that the modifying and the scaling are carried out in a multiplication operation.

The support can be found in p.12, Equation 20.

New claims 33, 36, 39 and 41 are dependent from claims 2, 13, 18 and 27 and include the limitations of using a modifying factor for the current frame, or $\alpha(t)$, and a modifying factor for the previous frame, or $\alpha(t-1)$, for modifying and scaling the first and second transform coefficients.

The support can be found in Figure 6.

New claims 34 and 37 are dependent from claims 2 and 13 and include the limitation of combining a time domain to the summed transform coefficients.

The support can be found in Figure 6.

New claim 35 is dependent from claim 2 and includes the limitation of providing the motion information in the modified bitstream.

The support can be found in Figure 6 – motion information 114.

New claim 38 is dependent from claim 13 and includes the limitations of a demultiplexer and a multiplexer.

The support can be found in Figure 6.

New claim 40 is dependent from claim 18 and includes the limitations of means for extracting motion information from the compressed bitstream and means for providing the motion inform in the modified bitstream.

The support can be found in Figure 6.

No new matter has been introduced.

At section 7, claim 27-32 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with written description requirement. The Examiner states that claims 27-32 are directed to a computer readable storage medium, but there is no support in the specification for the claimed “computer-readable storage medium”.

At section 4, the Examiner also states that, in the specification, software is shown as its own component, not as embedded in any device that may be interpreted as a memory.

It is respectfully submitted that software programs are described in the specification (page 14, line 31 to page 15, line 7) and shown in Figure 11. A person skilled in the start would know that a software program contains programming codes to carry out certain functions only when executed, and software programs such as those shown in Figure 11 can only be stored or embedded, either temporality or permanently, in a memory. A memory is also synonymous to a computer readable storage medium. Programming codes in a software program shown in a block in a block diagram cannot be stored or embedded in any other device so that the programming codes can be used to carry out the desired functions.

Thus, there is sufficient support for the claimed “computer readable storage medium” in the disclosure.

Applicant respectfully requests that the 112 rejection be withdrawn.

At section 9 of the office action, claims 2-10 and 13-19, 21-23, 25, 27-29 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Dischert et al.* (U.S. Patent No. 5,802,226 A, hereafter referred to as *Dischert*), in view of *Christopolous et al.* (U.S. Patent No. 6,526,099 B1, hereafter referred to as *Christopolous*).

Applicant has canceled claims 3-7, 14-17 and 19.

In rejecting independent claim 2, 13, 18 and 27, the Examiner states *Dischert* discloses a coder 410 having DCT module for obtaining transform coefficients representative of coded video data. The coded data is mixed with a secondary signal in mixer 80. The Examiner admits that *Dischert* fails to disclose residual video data or error video data, but points to *Christopolous* for disclosing that data.

Applicant has amended claims 2, 13, 18 and 27. As amended, claims 2, 13 and 18 include the limitations that the first modified transform coefficients and the second modified transform coefficients are summed to provide the summed transformed coefficients which are quantized for providing further data in a modified bitstream. The first and second modified transform coefficients are obtained from the first and second transform coefficients. Both the first transform coefficients and second transform coefficients are obtained from the same decoded video data with different processes.

The cited *Dischert* and *Christopolous* references do not disclose all the limitations in claims 2, 13, 18 and 27.

For the above reasons, *Dischert*, in view of *Christopolous*, fails to render independent claims 2, 13, 18 and 27 obvious.

As for claims 8-10, 21- 23, 25, 28, 29 and 31, they are dependent from claims 2, 13, 18 and 27 and include further limitations. For reasons regarding claims 2, 13, 18 and 27 above, *Dischert*, in view of *Christopolous*, fails to render independent claims 8-10, 21-23, 25, 28, 29 and 31 obvious.

Furthermore, claim 21 is dependent from claim 19 and has been amended to include the further limitation that the summing means further configured for combining a time domain factor to the summed transform coefficients for achieving a further editing effect.

The cited *Dischert* and *Christopolous* references do not disclose this limitation.

Thus, *Dischert*, in view of *Christopolous*, also fails to render independent claim 21 obvious.

At section 10, claims 11, 12 and 32 are rejected under 103(a) as being unpatentable over *Dischert*, in view of *Christopolous*, and further in view of *Oguro* (U.S. Patent No. 5,477,276 A)

It is respectfully submitted that claims 11, 12 and 32 are dependent from claims 2 and 27 and include further limitations. For reasons regarding claims 2 and 27 above, claims 11, 12 and 32 are also distinguishable over the cited *Dischert*, *Christopolous*, and *Oguro* references.

New claims 33, 36, 39 and 41 are dependent from claims 2, 13, 18 and 27 and include the limitations of using a modifying factor for the current frame, and a modifying factor for the previous frame, for modifying and scaling the first and second transform coefficients.

None of the cited *Dischert*, *Christopolous*, and *Oguro* references discloses these limitations. Furthermore, since claims 2, 13, 18 and 27 are distinguishable over the cited *Dischert* and *Christopolous* references, claims 33, 36, 39 and 41 are also distinguishable over the cited *Dischert*, *Christopolous*, and *Oguro* references.

New claims 34 and 37 are dependent from claims 2 and 13 and include the limitation of combining a time domain to the summed transform coefficients.

None of the cited *Dischert*, *Christopolous*, and *Oguro* references discloses this limitation. Furthermore, since claims 2 and 13 are distinguishable over the cited *Dischert* and *Christopolous* references, claims 34 and 37 are also distinguishable over the cited *Dischert*, *Christopolous*, and *Oguro* references.

New claim 35 is dependent from claim 2 and includes the limitation of providing the motion information in the modified bitstream.

The cited *Dischert*, *Christopolous*, and *Oguro* references do not disclose this limitation. Furthermore, since claim 2 is distinguishable over the cited *Dischert* and *Christopolous* references, claim 35 is also distinguishable over the cited *Dischert*, *Christopolous*, and *Oguro* references.

New claim 38 is dependent from claim 13 and includes the limitations of a demultiplexer and a multiplexer.

The cited *Dischert*, *Christopolous*, and *Oguro* references do not disclose this limitation. Furthermore, since claim 13 is distinguishable over the cited *Dischert* and *Christopolous* references, claim 28 is also distinguishable over the cited *Dischert*, *Christopolous*, and *Oguro* references.

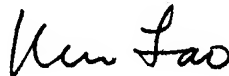
New claim 40 is dependent from claim 18 and includes the limitations of means for extracting motion information from the compressed bitstream and means for providing the motion inform in the modified bitstream.

The cited *Dischert*, *Christopolous*, and *Oguro* references do not disclose this limitation. Furthermore, since claim 18 is distinguishable over the cited *Dischert* and *Christopolous* references, claim 40 is also distinguishable over the cited *Dischert*, *Christopolous*, and *Oguro* references.

CONCLUSION

Claims 2, 8-13, 18, 21-23, 25, 27-29 and 30-41 are allowable. Early allowance of claims 2, 8-13, 18, 21-23, 25, 27-29 and 30-41 is earnestly solicited.

Respectfully submitted,



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